Life Hasn't Been The
Same Since That House
Dropped On My Sister



GRAY'S
ANATOMY
ANTIQUE & MEDICAL
INSTRUMENTS


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INSTRUMENTS
ELISABETH


ELISABETH BENN
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GRAY'S ANATOMY
ANTIQUE & MEDICAL INSTRUMENTS





Senatus Universitatis Cantabrigiensis Academicus,

IN REPUBLICA MASSACHUSETTENSI,

(Omnibus ad quos hæ Literæ pervenerint Salutem)

(Quoniam) Johannes Kingsley Lewis vir ingenuus bene ac scientia utili præditus moribusque probis ornatus post tempus solenne in medicina disciplina et usu impensum prælectionesque professorum hac in Universitate auditas specimine eruditionis oblato et Dissertatione de Historia Medecinae, pro more defensa dignum se ostendit qui ad Doctoris gradum admittatur a Professoribus est commendatus (Præses et Socii Collegii Harvardiani) annuentibus (Curatoribus)

Johannem Kingsley Lewis

ad Gradum **MEDICINÆ DOCTORIS** admiserunt eique potestatem in rebus Medicis agendi et consultandi dederunt et omnia insignia jura honores et privilegia ad eum gradum spectantia concesserunt.

In cujus rei testimonium literis hisce Universitatis Sigillo Munitis die Martii xx anno post (Christum Natum) MDCCCLXI Rerumpublicarum Americanarum LXXXV

NOS pro auctoritate nobis commissa nomina subscripsimus.

Professores.

[illegible]	Obstet. et Jurisprud. Medicinæ Prof.
[illegible]	Anat. Patholog. Prof.
[illegible]	Med. Clin. Prof.
[illegible]	Anat. et Physiolog. Prof.
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[illegible] Præses


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ON THE ORIGIN OF SPECIES CHARLES DARWIN
VOL. I.
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DOUBLE
EARTHENWARE INHALER
THE ALEXANDRA INHALER
DIRECTIONS


ON THE ORIGIN OF SPECIES
CHARLES DARWIN

ON THE
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OF
SPECIES
DARWIN.
ON THE
ORIGIN
OF
SPECIES
CHARLES
DARWIN


THE
DESCENT
OF
MAN
DARWIN
VOL. I


ON THE
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OF
SPECIES
DARWIN


Charles Darwin
Feb. 28th 1882
Your well-wisher.


Cocaïne
PHENACETIN
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COWPER'S
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ANATOMY
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The Mulford
Diphtheria Antitoxin
U-20
ILETIN
ILETIN
(INSULIN, LILLY)
I-letin also known as Insulin, Lilly, as
at present supplied is an aqueous solu-
tion of the active principle obtained
from the islands of Langerhans in the
U-40
ILETIN



SYPHILIS ULCERO-SERPIGINOSA


LEECHES
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U-40
ILETIN
INSULIN, LILLY
40 Units in Each cc
ELI LILLY AND COMPANY
U-20
ILETIN
MRS WINSLOW'S
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SYRUP
(INSULIN, LILLY)
I-letin also known as Insulin, Lilly, as at present supplied in an aqueous solution of the active principle obtained from the islands of Langerhans in the pancreas.
Trade Mark Reg



Piper.
Albi
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VIN TONIQU
CONTAINS
NEW YORK
"27"



Piper.
Albi
The Mulford
Diphtheria Antitoxin
U-20
ILETIN
INSULIN, LILLY
LABORATORIES
NEW YORK.
Trade Mark Reg.
U-40
ILETIN
INSULIN, LILLY
40 Units in Each cc.
ELI LILLY AND COMPANY
(INSULIN, LILLY)
I-letin also known as Insulin, Lilly, as at present supplied is an aqueous solution of the active principle obtained from the islands of Langerhans in the pancreas. It is made under license from the University of Toronto which controls


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OF
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FATHER OF MEDICINE
TREE OF HIPPOCRATES
Plantanus Orientalis
A cutting from the tree under which Hippocrates is said to have held classes in the Greek city of Cos.
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THE BATTLE CREEK SANITARIUM
THE SEAT of HEALTH
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IT IS PLEASANT.
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The Male
MUSCULAR AND SKELETAL SYSTEM
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ENJOY the sport of Kings! Set the pace to suit your fancy—get the tingling vibrant health-giving thrill of a brisk canter, a snappy trot, a racing gallop—without leaving your own home.
Famous Men and Women Ride This Way
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47
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Straight Bones That Grew Straight in Educator Shoes
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Unless this mark is on the sole, it is NOT an Educator.
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YOU grown-up men and women—you can have feet that are not constantly crying out to remind you of corns or bunions or callouses or ingrowing nails or fallen arches—those reminders of your old narrow, pointed, bone-bending shoes, made only for "looks."
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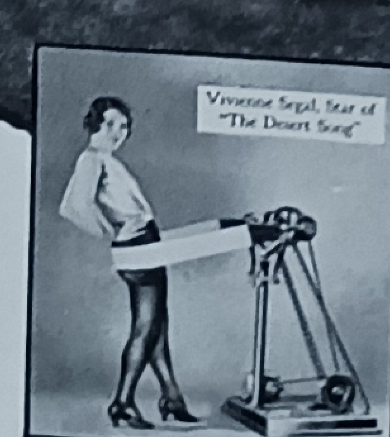
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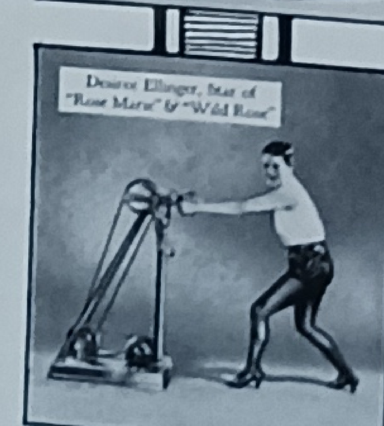
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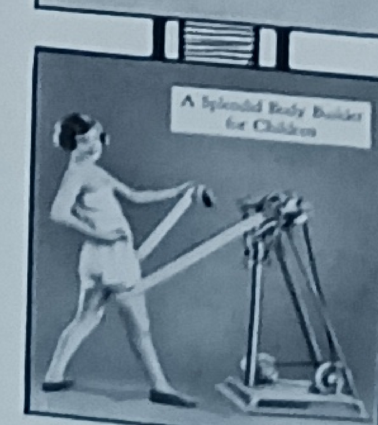
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Electricity if properly applied will benefit ANY ONE.
Indication of a very weak system.
Heart Action very poor & Needs Stimulation.
Nervous System in Deplorable Conditions. This Treatment is advisable.
These points show general debility and lost vitality.
Not an average showing. This will certainly improve your health.
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REDUCING
THE IDEAL SIGHT RESTORER





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Given at Nevada, Mo this [illegible] day of [illegible] 190[illegible]

[illegible] President


[illegible] Secretary


VACUUM
FOOT SWITCH
INDIFFERENT TERMINAL




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NEW YORK
MADE IN U.S.A.
H. F. C.
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READ CAREFULLY

Directions for using the

INGENTO TWIN-ARC LAMP

Do not insert carbons when lamp is plugged into circuit.

Place one carbon in each of the terminals or carbon holders and tighten the binding screws securely. Then plug in on electric light circuit. Place the lighter carbon across the carbons in the lamp as illustrated. This will start the arc. As soon as the lamp lights remove the lighter carbon. Be sure the current is turned on when applying the igniter.

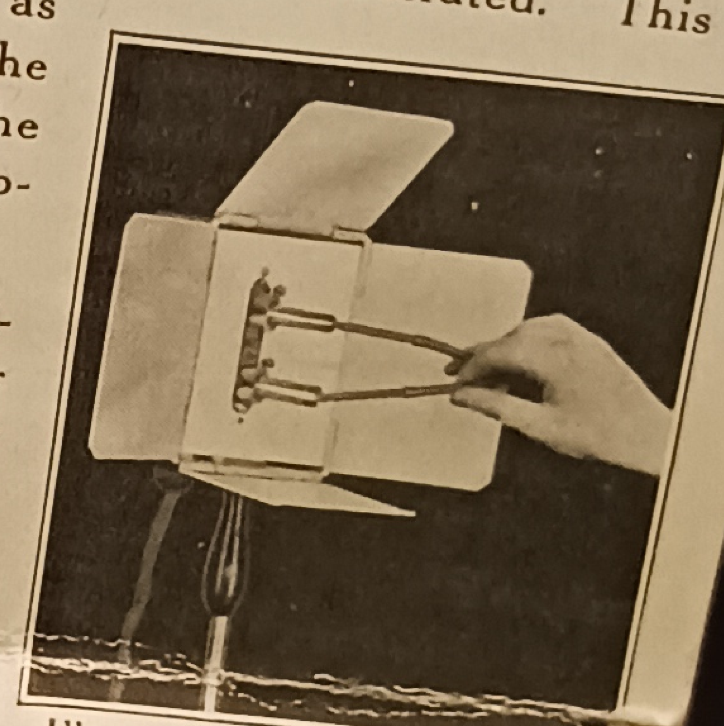
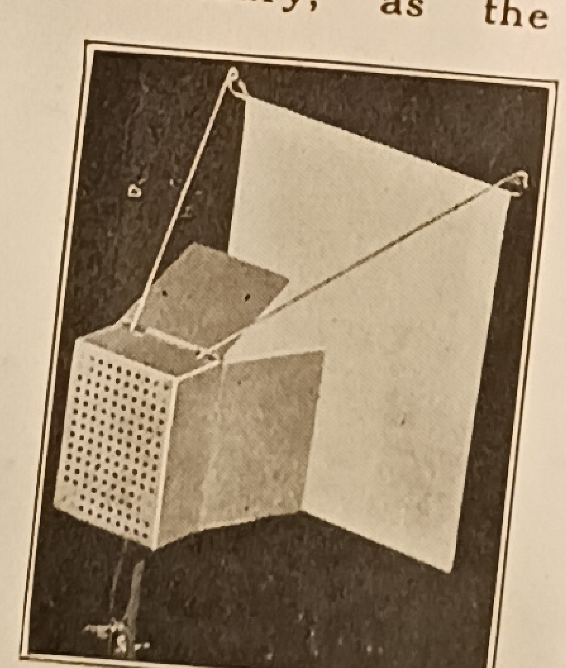


Illustration showing method of lighting arc lamp

On direct current the positive carbon burns a little faster than the negative. After burning the lamp ten or fifteen minutes, reverse the plug attached to the lamp so the carbons will burn evenly. On alternating current this is not necessary, as the carbons should burn evenly. When the carbons are burned down within one inch of the terminal, pull out the plug—replace with new carbons, as otherwise, you will spoil your terminals.



Rear view of lamp showing diffusing screen attached

Use 6 MM.x3 inch REXO Carbons. The carbons are furnished 6 inches long and they are easily broken in half before inserting in lamp.


The lamp may smoke at the start, but this is simply the surplus oil burning off and will cease after using the lamp a short time.

This lamp can be used on any lighting circuit 110-120 volts direct or 60 cycle alternating current. It draws 10 to 12 amperes.

Manufactured and Guaranteed by
BURKE & JAMES, Inc.
223 W. Madison St. Chicago, Ill., U.S.A.














Fig. 3.
Fig. 4.
Fig. 5.
Fig. 6.
Fig. 2.
Fig. 1.


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ACTINOTHERAPY GOGGLES
Special for
ULTRA VIOLET RAY TREATMENT
Beware of dangerous Celluloid Imitations in many of which, even ignoring their inflammable character, the requisite qualifications as light filters are not present.
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RAYVITOR





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WEAK
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TO THOSE AFFLICTED
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Arium
RADIUM IN TABLETS
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(R.D.)
FEB. 3, 1880.
IN CANADA
FEB. 9,
1881.


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I Cure CANCERS and TUMORS
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Tubercle Bacilli
Tincture Amal
RHEUMATIC CURE
Paralysis CURED
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Perfect Curves
Facts About Goat Lymph
HOW TO GROW TALL
Dial Electro-Magnetic Machine
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ELECTRIC SHOCK MACHINE
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ELECTRO-PHYSICAL LABORATORIES INC.
NEW YORK
TREAT
OFF
TREATMENT SWITCH
TIMING IN SECONDS
DELTA RANGE
ALPHA RANGE
BETA RANGE
RANGE CONTROL
RANGE LIGHTS
POWER
BRAIN WAVE SYNCHRONIZER
SCHNEIDER INSTRUMENT CO.
MADISON STREET


INGRAHAM CLOCKS
Liberty Intermittent Alarm
ONE DAY AND ONE DAY RADIUM
Liberty Intermittent
LIBERTY
INTERMITTENT
RADIUM
"EVERLIGHT"
117N7
VR 75-30
DO NOT OPERATE
VOLTAGE SELECTOR
ON
DELTA RANGE
ALPHA RANGE
BETA RANGE


INGRAHAM CLOCKS
Liberty Intermittent Alarm
ONE DAY AND ONE DAY RADIUM
LIBERTY
INTERMITTENT
RADIUM
VR 75-30



NEW HAVEN JUNIOR TATTOO
RADIUM
THE NEW HAVEN CLOCK CO. U.S.A.
" Radium
Enamel Made With
on this line
OF "EVERLIGHT"
dark anything to which
for all practical
an extensive use in a
be viewed in darkness or
dials, house numbers,
and door-bell buttons, pull
advertising signs, novelties
PRODUCTS
MANUFACTURERS
PARK, CALIFORNIA,




DANGER
ELECTRIC
CHAIR



MILLIAMPERES
H. G. FISCHER & CO.
CHICAGO, ILL.
OFF
1000
4000
METER
SELECTOR
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FUSE



HIGHEST VOLTAGE
UNI TERMINAL
METER
FUSE
VOLTAGE
LOW
TYPE
G12
AMP.
6
CYCLE
60
VOLTS
110
Nº 30804
H. G. FISCHER & CO.
CHICAGO, U.S.A.
FOOT SWITCH


The Therapeutic Range of the Electric Light Bath


MANUFACTURED BY
BATTLE CREEK EQUIPMENT CO.
BATTLE CREEK, MICHIGAN, U.S.A.
No
PATENT
VOLTS 120
CYCLES
AMPS





The Therapeutic Range of the Electric Light Bath

¶ AS ATTESTED BY THE EXPERT OPINION OF LEADING AMERICAN AND EUROPEAN AUTHORITIES










TEST YOURSELF
Battle Creek SUNARC Bath

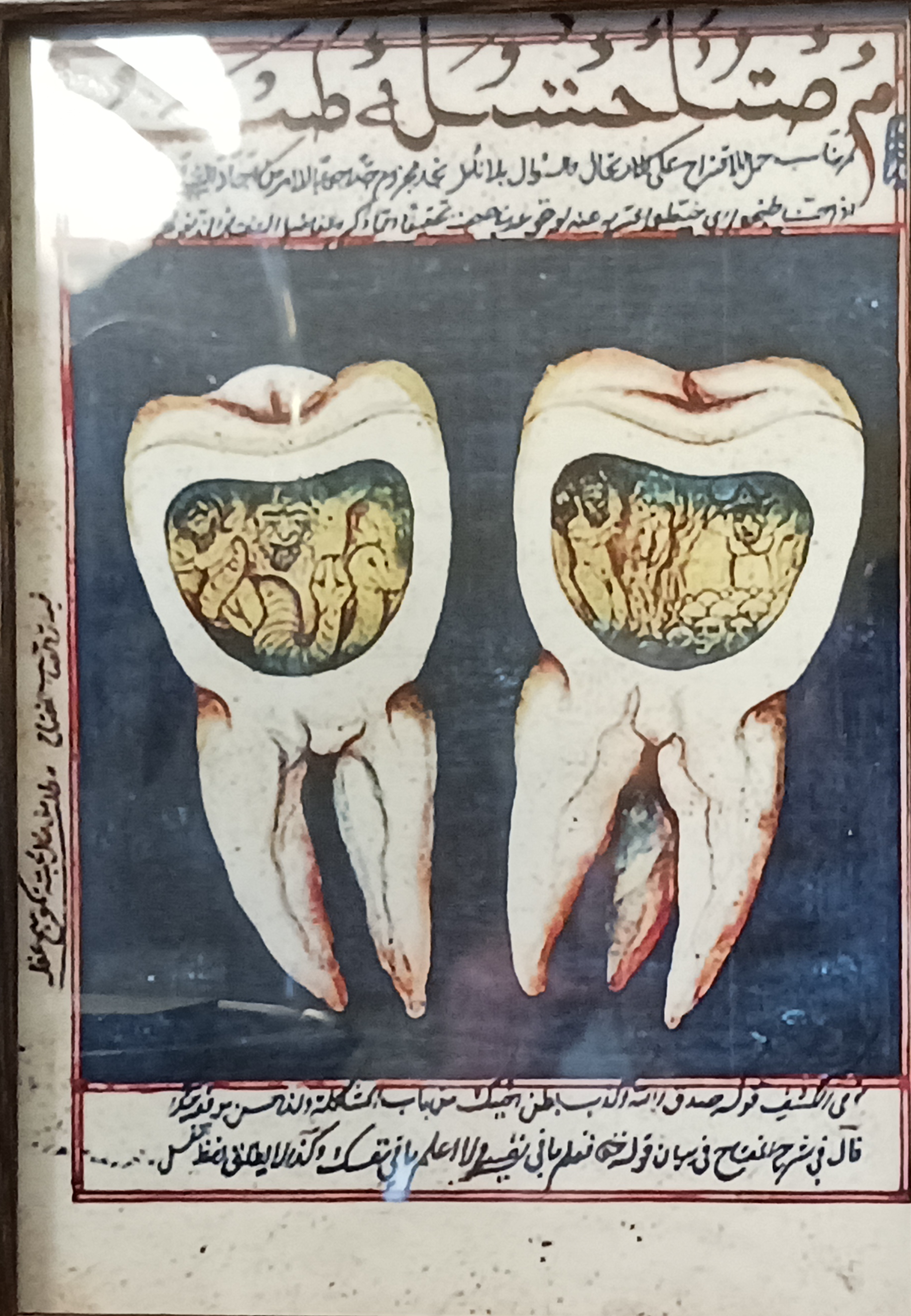




RANGE SELECTOR
MEDIUM
LOW
0 50 100 150 200 250
POWER OUTPUT
JEWELL MILLIAMMETER
1000 1500 2000 2500 3000
CURRENT OUTPUT
JEWELL MILLIAMMETER
ACTIVE
The Right Road To Health
The Magnecoil Will Make You Well
"Magnetism is in Rhythm With the Music of the Universe"









Nº 6
SAMUEL S. WHITE
DENTISTS' SUPERIOR
GOLD FOIL
CHESTNUT ST. COR. 12TH PHILADELPHIA
767 & 769 BROADWAY, NEW YORK
13 & 16 TREMONT ROW, BOSTON
121 & 123 STATE ST. CHICAGO
DESENSITIZES TEETH BY "PRESSURE ANASTHESIA"
OR THE PAINLESS EXCAVATION OF CAVITIES,
GRINDING TEETH FOR CROWNING OR THE IMMEDIATE
EXTIRPATION OF THE PULP
FORCEPS


OBTUNDER
GOLDFOIL
TOOTH FORCEPS
IOWA
GOLD CYLINDERS



McINTOSH BIOLITE
REG US PAT OFF
INFRARED GENERATOR
PAT'D JUNE 24 1930 № 1768519
MODEL № 3370
SERIAL № F311040
VOLTS 120
AMPS 6
MFD. BY McINTOSH ELECTRICAL CORPORATION
CHICAGO U.S.A.


Health
Renulife
VIOLET RAY
PATENT No. 369338
Portia
Non-Flam
ACTINOTHERAPY GOGGLES
Special for
ULTRA VIOLET RAY TREATMENT
SOLPORT BROTHERS LTD.
CURRENT CONTROL INTERNAL
FUSE
200-250 VOLTS
OFF






OZONE-INHALANT
A splended combination of essential oils for use with the Shelton Ozone generator. This solution has a very soothing effect upon the membranes and assist healing.
HOW TO USE IT: Put a sufficient, quantity of the solution on a piece of absorbent cotton so as to thoroughly moisten it and place it into the upper chamber of Ozone Generator. Add additional inhalant solution from time to time as it evaporates.
SHELTON ELECTRIC CO.
16 E. 42nd St., New York


PATENT No.369338
Portia Regd
Non-Flam
ACTINOTHERAPY GOGGLES
Special for
ULTRA VIOLET RAY TREATMENT
Beware of dangerous Celluloid Imitations in many of which, even ignoring their inflammable character, the requisite qualifications as light filters are not present.
Patentees and Sole Manufacturers
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44·47 SPENCER ST GOSWELL RD LONDON.E.C.I.
Renalife
DETROIT
MODEL
VOLTS
PATENT NOS.
CURRENT CONTROL
EXTERNAL INTERNAL


THERMOCAP
Grow Hair Quickly at Home-This New Amazing Way
In 30 Days~Or No Cost!
MERKE HAIR TONIC
INGRAHAM CLOCKS
Liberty Intermitte
ONE DAY AND ONE DA
Mr.SLIM


ILLUSTRATED WORLD
Health Vitality Beauty
Yours Through the Magic of
VIOLET RAYS
Try This Wonderful Machine 10 Days Free
Not a Vibrator
Try Violet Rays for
Send for Booklet and Special Offer
FOR WOMEN OF ALL AGES
HARNESS' ELECTRIC CORSETS
5/6
5/6
THE MEDICAL BATTERY CO. LIMITED
52, OXFORD St LONDON W.
UNIVERSALLY RECOGNIZED
METHOD
NEW YORK
OFF
ON


HARNESS' ELECTRIC CORSETS
FOR WOMEN OF ALL AGES
HARNESS' ELECTRIC CORSETS
5/6
5/6
52 OXFORD S^T LONDON W.
PILOT
RADIATION
ON
NEW YORK
140 150


ALL IN SEARCH OF HEALTH
HARNESS'
ELECTROPATHIC
BELTS
Constructed
FOR NEW LIFE AND VIGOR
PAMPHLETS
CONSULTATIONS FREE
ELECTROPATHIC & ZANDER INSTITUTE
OVERCOME


Drink
Your
Way
to Health
and Happiness
with
REVIGATOR
NEW CONCEPTS IN DIAGNOSIS AND TREATMENT
ABRAMS
UNITS
TENTHS


THE SUN SUNDAY, MARCH 23, 1919
"Radior" Preparations are GUARANTEED (under $5000 penalty) to be prepared from the purest pharmaceutical ingredients to contain a definite quantity of Actual Natural Radium, and to retain their Radio-activity for at least 20 years
The Radior Coy
Radium and Beauty
HERE is a face cream—Radior Peau de Velour (night cream)—which is very different from any cream you have ever used.
Take a cool dab of it on your finger tips—rub it into your skin—you feel the difference immediately. You notice how smooth, luxurious and "creamy" it is. You distinguish a different fragrance—a subtle captivating fragrance—the exclusive Radior perfume.
The big difference, however, lies in what this cream does for your skin and complexion. It not only softens and adds resiliency to skin and facial muscles. It not only imparts a soft delicate bloom to the surface. But it does what no ordinary cream can do—it energizes, invigorates, rejuvenates, because it contains Actual Radium.
That is the magic behind Radior Beauty Aids. Each is imbued with LIFE by Radium—the greatest of all aids to beauty.
RADIUM BEAUTY
Radior
Toilet Requisites
Sole Distributors GEO. BORGFELDT & CO.
IRVING PLACE NEW YORK


THE OWEN
ELECTRIC BELT AND APPLIANCE CO.
CHICAGO AND ST. LOUIS
STANDARD UTERINE SUPPORTER
American College of Mechano-Therapy



STANDARD UTERINE SUPPORTER
W. H. HORN & BRO.
PHILADELPHIA
CHARTERED BY THE STATE OF ILLINOIS
American College of Mechano-Therapy
"PERMANENT HEALTH THROUGH PERFECT CIRCULATION"
Salutem
To All to whom these Presents may come, Greeting
Whereas from time immemorial it has been a laudable custom and one universally approved that those persons who have devoted their lives to the study and practice of the noble Arts and Sciences should receive Recognition and Reward and be elevated to high Distinction and Degree. Therefore being deeply impressed with the wisdom propriety and usefulness of this historic custom and in conformity with its usages,
Know all Men by these Presents, That having satisfied ourselves of the Good Moral Character, High Professional Standing and he having passed a most satisfactory examination as to Mechano-Therapeutical skill
Therefore Michael Quintavalle
has been created and made a Doctor of Mechano-Therapy and is awarded this Diploma And to him has been granted all rights and privileges everywhere pertaining to this Degree.
In Witness Whereof we have subscribed our names confirmed by the seal Given from the halls of this College to be signed by its President and Secretary and the official Corporate Seal of said institution hereto affixed at City of Chicago, Illinois, United States of America, this 13th day of October in the year of our Lord One Thousand Nine Hundred and Thirteen


Try This Wonderful
Try Violet Rays for
Not a Vibrator
Send for Booklet and Special Offer



Published Jany 28th 1804 by H. Humphrey St James's Street London.

Breathing a vein.



J. Gillray inv. & fec.

London. Publish'd Nov. 11. 1801 by H. Humphrey 27. St James's Street.

METALLIC-TRACTORS.



Publish'd Jany. 26th. 1804. by H. Humphrey St. James's Street.

Gentle EMETIC.



Publish'd Feb. 6th 1800. by H Humphrey, 27 St James's Street London

Taking PHYSICK.



Publish'd Jan 28th 1804. by H Humphrey St James's Street London

Charming well again.



Consultation de Médecins.

1823.



I. lith de Delpech

Le baume d'acier.



L. Boilly 1827.

Les Sangsues.

85.



PHYSICK.

From the Original Picture of the same size painted by Ostade, in the Collection of the Right Honourable William Beckford Esq. Lord Mayor of the City of London to whom this PLATE is most respectfully inscribed by his Lordship's most obliged and most humble Servant J. Boydell.

The National College of Electro-Therapeutics.

TO ALL TO WHOM THESE PRESENTS SHALL COME.

GREETING

Be it Known That: Ernest William Cordingly

Having satisfactorily completed the prescribed course of instruction in this College and passed the requisite examination, and having furnished satisfactory evidence of a thorough knowledge of the subjects of

ELECTRO PHYSICS AND ELECTRO THERAPEUTICS.

Now, Therefore: We, the Officers of this College, by the authority vested in us by the State of Indiana, grant to him this

Diploma

with all the rights and privileges thereunto pertaining

Witness: The Seal of this College and the signatures of its officers at the city of Lima, State of Ohio this seventeenth day of April 1928

Wm L Howe M.D. Ph.D. M.E. — C. A. Bryce, A.M., M.D., M.E.

W. L. Hamilton M.D. Ph.G. M.E. — George S. Foden M.D. M.E.

S. H. Casenburg M.D. M.E. — Wm H. O'Neill M.D. M.E. D.E. D.Ph. D.O.

Chas W. Angell M.E. E.E. — Henry W. Meier D.C.

H. C. Bennett, M.D. M.E. M.Ph. D.E. D.N.C. Secretary — Chas W. Deem M.D. M.E. K.D.D. President

INDIANAPOLIS LITHO CO.

THE ILLUSTRATED LONDON NEWS

REGISTERED AT THE GENERAL POST OFFICE AS A NEWSPAPER.

No. 3682.— VOL. CXXXV. | SATURDAY, NOVEMBER 13, 1909. | With Olympia Automobile Exhibition Supplement. | SIXPENCE.

Lord Strathcona. The Bishop of London. Dr. S. A. K. Wilson.



Sister Baker.

"IT'S VERY PLEASANT": THE KING SUBMITTING HIMSELF TO A SHOCK FROM THE HIGH-FREQUENCY MACHINE ON THE OCCASION OF HIS OPENING THE JUBILEE EXTENSION BUILDINGS OF THE NATIONAL HOSPITAL FOR THE PARALYSED AND EPILEPTIC.

During his recent visit to the National Hospital for the Paralysed and Epileptic, an extension of which he opened, the King, making an inspection of the hospital, tested the high-frequency machine in the electrical department, and submitted himself to a shock from it, describing his experience as "Very pleasant." The uses of the various apparatus for the treatment of patients were explained by Dr. S. A. K. Wilson, Registrar of the Hospital, who has charge of the work of the department.

DRAWN BY OUR SPECIAL ARTIST, S. BEGG.


FORMACONE



LA CURE DE LA TUBERCULOSE




LA CURE DE LA TUBERCULOSE


RHEOSTAT


VOLT
RHEOST
10
0
9
8
7
6
5
TRANSFORMER
ON
WAPPLER ELECTRIC CO. INC.
NEW YORK. U.S.A.
MODEL
110
6
60



General Faradization.



READ CAREFULLY

Directions for using the

INGENTO TWIN-ARC LAMP

Do not insert carbons when lamp is plugged into circuit.

Place one carbon in each of the terminals or carbon holders and tighten the binding screws securely. Then plug in on electric light circuit. Place the lighter carbon across the carbons in the lamp as illustrated. This will start the arc. As soon as the lamp lights remove the lighter carbon. Be sure the current is turned on when applying the igniter.

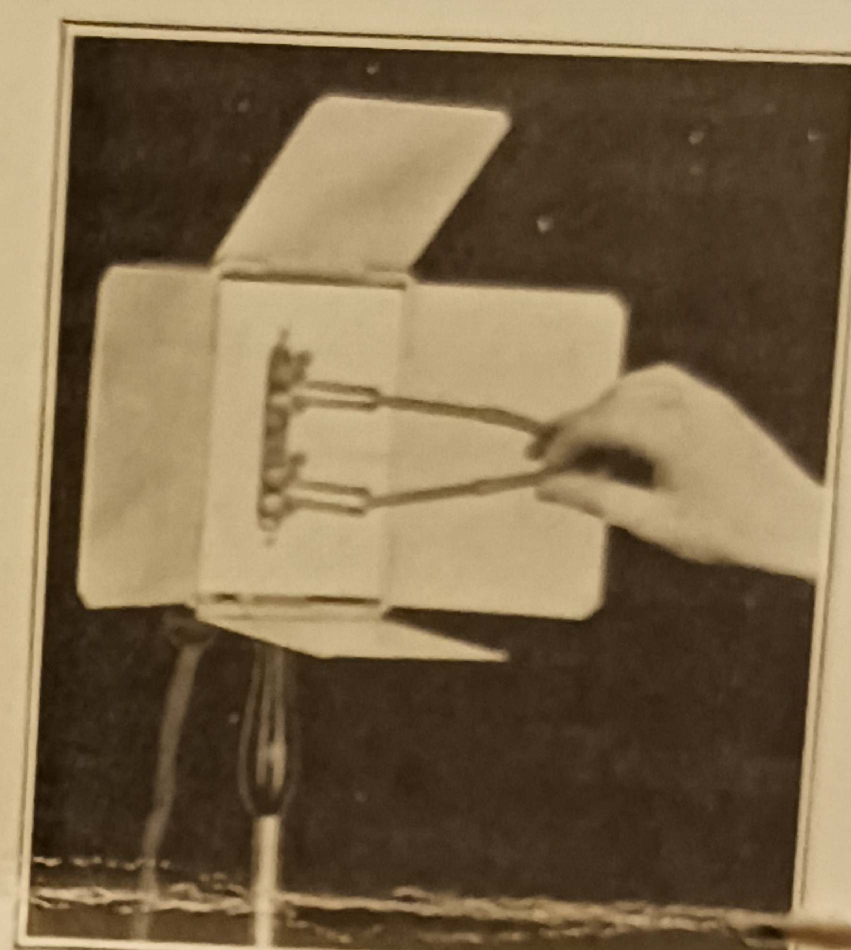
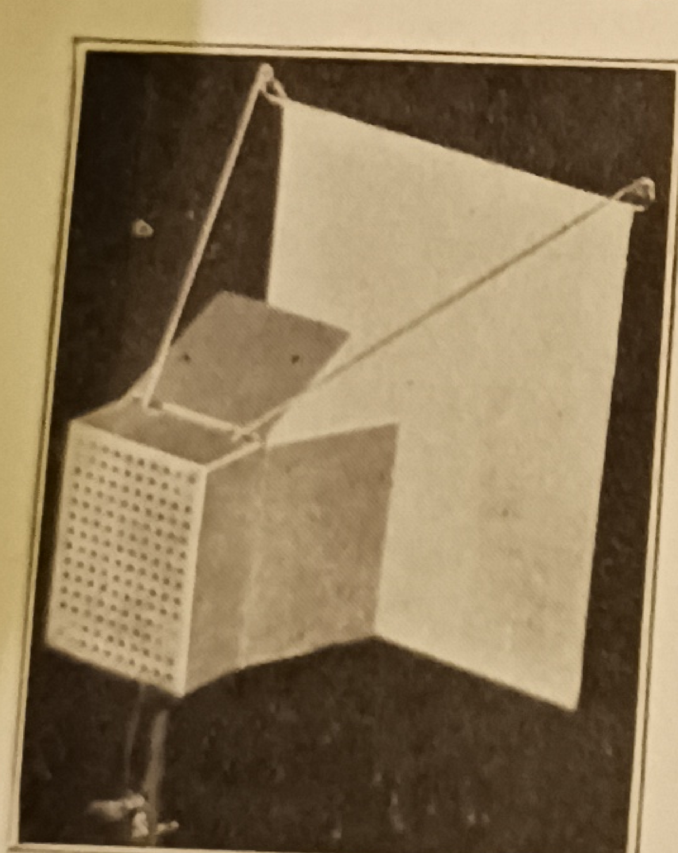


Illustration showing method of lighting arc lamp

On direct current the positive carbon burns a little faster than the negative. After burning the lamp ten or fifteen minutes, reverse the plug attached to the lamp so the carbons will burn evenly. On alternating current this is not necessary, as the carbons should burn evenly. When the carbons are burned down within one inch of the terminal, pull out the plug—replace with new carbons, as otherwise, you will spoil your terminals.



Rear view of lamp showing diffusing screen attached

Use 6 MM.x3 inch REXO Carbons. The carbons are furnished 6 inches long and they are easily broken in half before inserting in lamp.

The lamp may smoke at the start, but this is simply the surplus oil burning off and will cease after using the lamp a short time.

This lamp can be used on any lighting circuit 110-120 volts direct or 60 cycle alternating current. It draws 10 to 12 amperes.

Manufactured and Guaranteed by

BURKE & JAMES, Inc.

223 W. Madison St. Chicago, Ill., U.S.A.

Directions for using this lamp for Therapeutic Purposes

Read other side for operating instructions.

ULTRA VIOLET RAYS

what they mean to you

Summer sunshine is a priceless treasure. The powerful healing and health-preserving effects of its radiations have been known for ages. But the true value of sunlight has only in recent years become understood. It is the ultra-violet rays that are chiefly valuable. These are the health-giving and health-maintaining rays. They are the source of the "tonic energy" so essential to sturdy, vigorous bodies and sound, clear minds.

It is well understood that sunlight is essential to good health. To growing children it is a necessity. The child robbed of sunlight grows up puny and sickly, like a plant in a cave. The widespread contagions of colds, grippe, influenza and other diseases that flourish during the winter months are further indicative of the great need of sunlight.

To be sure there is sunlight in the winter, but it is a sunlight that is almost devoid of ultra-violet rays. Any physician will tell you that the amount of ultra-violet in sunlight in the winter is negligible. Clouds, fog, smoke, natural window glass, clothing, all act as impassible barriers.

With our new carbon arc lamp in your home—the most efficient carbon arc lamp designed for home use—you can have the full advantage of brilliant June sunshine—every day. Treatments need be only a few minutes daily.

Ultra-violet Builds Health

The value of Ultra-violet rays for building and maintaining health has been demonstrated in numberless ways. One reason for the health value of Ultra-violet is that its rays are the greatest natural germ destroyer we have. Everything which comes within the scope of Ultra-violet is purified and disinfected, and all germ life is either destroyed or its growth checked. In the widest and truest sense, it can be said that Ultra-violet is not only a valuable treatment in the case of many diseases, and for some, the best known treatment, but it also acts as a bulwark

against disease. Its ene
entire system is the most
known.

Ultra-violet t

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against disease. Its energizing and tonic effect on the entire system is the most marvelous disease preventative known.

Ultra-violet to Maintain Health

But, naturally, to ask how or why the Carbon Arc Lamp, thru its production of Ultra-violet rays, builds and maintains health is far less important than to know that it does. And the great fact that carbon arc sunshine, thru its Ultra-violet rays, does actually build and maintain health has been demonstrated in numberless cases—in ways that you can turn to your immediate benefit. A tanned, glowing skin, sparkling eyes, and a general sense of well being—these are the rewards of regular treatments by our carbon arc lamp.

Ultra-violet radiation is of supreme value to the sick and as a method for keeping the entire family fit and strong it has equal importance. Its life-giving rays benefit both men and women. Its usefulness to growing children cannot be over-estimated. Distressing irritabilities disappear, listlessness, lack of appetite, tendencies to catch cold easily, all these quickly respond.

Natural bodily resistance to every form of sickness is greatly increased. Youthfulness is prolonged both in spirit, in appearance, and in joyous vitality.

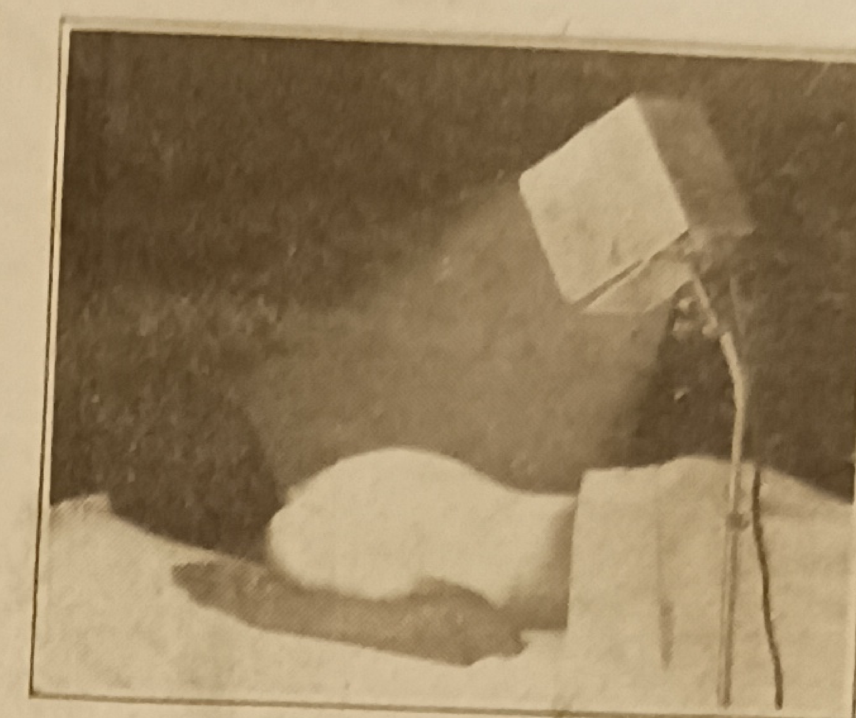
Asset to Growing Children

Medical authorities have discovered that in the temperate zones, 40 to 70 per cent of children in industrial areas show signs of rickets. Such a condition leads to more or less permanent deformaties, such as bowed legs, hollow chests and poor teeth due to the inability of the child to assimilate lime. Like conditions are noted in nursing mothers, leading to loss of teeth. Indeed, it may be said that underlying every disease, whether it be an acute infection or a chronic, degenerative change, there will be found existing a disturbance of nutrition or lack of normal vitality in some part of the cellular units. This is the reason for the widespread use and approval of Ultra-violet radiation.

Further, just as rickets, so prevalent in our industrial areas, are due to sunlight starvation, so in much wider areas will be found defective teeth due solely to a similar lack of Ultra-violet radiation. Irradiated children always have stronger, sounder bones and teeth. Ultra-violet is also the best possible treatment for children's bruises so common as the result of falls or similar accidents. Pain is reduced almost immediately and the danger of infection is greatly lessened.

Every person undergoing Ultra-violet treatment reacts differently. Sometimes the first exposure need be only one minute. Sometimes thirty minutes may not be too long, depending on skin pigmentation, but we can safely say that a 5 to 10 minute treatment will be found

average over any one area. The reddening of the skin, or erythema, should be used as a guide for subsequent treatments. In the same way the frequency of treatment varies. As a general rule the reaction from one treatment should be permitted to subside before another treatment is given. If, following the exposure, any severe symptoms such as painful erythema (sunburn) are noted, treatment has been too long. Exposure should be omitted for a day or two and then resumed for shorter durations.



There is usually a lapse of from one to three hours before skin reaction sets in. Some doubt exists as to whether the appearance of strong pigment (tanning) is sufficient or whether erythema is necessary for success of Ultra-violet therapy. In Europe it is considered that pigmentation without inflammation (erythema) is more desirable.

Treatment

For the first exposure, a 5 minute treatment at 30 to 36 inches distance is quite sufficient. Fifteen minutes may be considered a full time treatment after Ultra-violet radiations have been given for some time. It is advisable for one taking Ultra-violet treatments for the first time to expose only the limbs for the first treatment; that is, give the lower limbs 5 minutes at 36 inches and then each arm the same. For the second treatment, uncover more of the body, for the third treatment still more, until finally the entire body is exposed. General body radiation means exposing the chest and back as well as the limbs.

The eyes must at all times be covered with the tinted goggles. Even when wearing these goggles one should not stare at the arc any more than one would stare at the sun. It is best to have the eyelids closed, or if one prefers one may cover the eyes with a cloth bandage.

Your physician should be consulted if you are ill. He then can help you by prescribing the proper treatment.

Make your home healthy and happy by using the lamp regularly.

Sunshine (Therapeutic A) carbons can be supplied at all times. We also carry in stock all other medical carbons from A to K in various sizes.

Specify 6 mm.x6-inch Sunshine (Therapeutic A) carbons for this lamp. They are $1.25 a dozen.

Manufactured and Guaranteed by

BURKE & JAMES, Inc.

223 W. Madison St. Chicago, Ill., U.S.A.


I Love You


I Love You




MEMBERS ON
AJ36

A State Program for the Supervision and Training of the Feebleminded

C. Stanley Raymond, M. D.

Superintendent

WRENTHAM STATE SCHOOL

WRENTHAM, MASSACHUSETTS

A State Program for the Supervision and Training of the Feeble-minded

C. Stanley Raymond

Superintendent

WRENTHAM STATE SCHOOL

WRENTHAM, MASSACHUSETTS

Feeblemindedness is a condition characterized by a lack of normal development of the intelligence resulting from imperfect development of the brain structure or from damage to the brain by disease or injury sustained before birth, at birth, or during the first few years of life. Poor heredity may result in children showing defect ranging all the way from slight subnormality to helpless idiocy. Accidents during child birth, inflammatory brain disease, convulsive seizures and head injuries may also result in various degrees of retardation. Congenital syphilis has been demonstrated to be the cause in at least 6% of all institutional cases of mental defect. Ductless gland imbalance is responsible for a considerable number of cases and many of these, as well as those of the accidental groups, are found to come from excellent families. Fifty per cent or more of the feebleminded come from poor stock.

The lack of development in the feebleminded is so marked that the individual is incapable of making scholastic progress beyond the fifth grade and is incapable of maintaining himself without aid, and of making an adequate social adjustment in the community. The psychological divisions of the entire group classified as idiots, imbeciles, and morons refer to those who reach a final mental age of less than 3 years for the idiot, from 3 to 7 years inclusive for the imbecile, and 8 to 12 years for the moron. The pathological types such as microcephalic, hydrocephalic, mongoloid, cretin, and the spastic paralyses may be found in any of these psychological groups. A large number of idiotic children are found to come from superior families, other members of the family being average or above in their intellectual capacity. Whereas the great majority of the imbecile and moron groups come from inferior stock, the latter are among the most improvable and are most likely to become eligible for return to the community on parole, or on trial visit. Yet they are much more of a menace socially, because of the possibility of transmitting their mental defect to offspring, than the idiot group, most of whom are sterile and whose lack of physical attractiveness serves as a protection.

Careful surveys have shown that at least 2 per cent of all children of school age are sufficiently retarded in their intellectual development to need either institutional care or special educational provision in order to attain the highest degree of development of which they are capable. The White House Conference on Child Health and Protection in 1930 esti-

Advance Contribution to Symposium on Mental Health, Section on Medical Sciences, American Association for the Advancement of Science, Winter Meeting, Richmond, Va. Session V, Mental Health Administration, Friday Morning, December 30, 1938.


V.D. MACHINE
MILLIAMPERES
Shunt
Scale
FRANK S. BETZ & CO.
CHICAGO


instruction in
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State of Ohio




MILLIAMPERES
Shunt
Scale
FRANK S. BETZ & CO.
CHICAGO




"Sunshine at the Snap of
SUNARC


for Sunlight
SUNARC Bath

THE STUDY OF PALMISTRY

FOR PROFESSIONAL PURPOSES AND ADVANCED PUPILS



by

Comte C. de Saint-Germain

THE RECOGNIZED STANDARD

1254 ILLUSTRATIONS


Walgreens
HEAVY DUTY
POWER
C
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S

INSTALLING AND OPERATING

Instructions

for the

THOMPSON-PLASTER "NEURISCO"

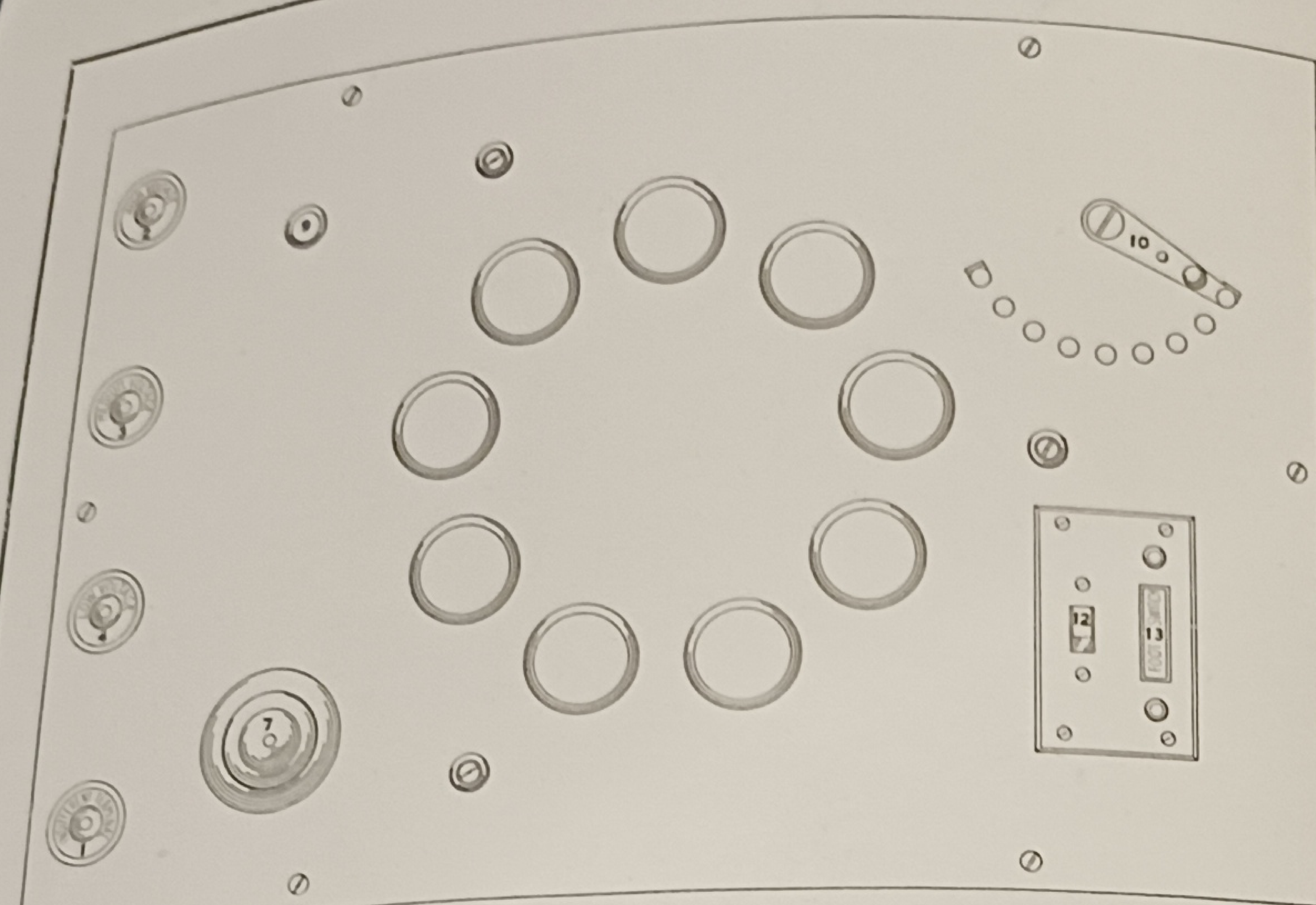
THE SPECIALISTS' EYE, EAR, NOSE AND THROAT COMBINATION CABINET



THOMPSON-PLASTER X-RAY CO., Inc.
LEESBURG, VIRGINIA

ACCESSORIES

Thompson-Plaster X-Ray Company



EXPLANATION OF DIAGRAM

No. 1—This terminal forms one outlet for all three Diathermy circuits, and must always be used with one of the other three (low voltage, medium voltage, high voltage) Diathermy outlets.

No. 2—Highest voltage Diathermy terminal. To complete circuit to patient use outlets Nos. 1 and 2.

No. 3—Medium voltage terminal. To complete medium voltage circuit to patient use outlets Nos. 1 and 3.

No. 4—Lowest voltage terminal. To complete circuit to patient use outlets Nos. 1 and 4.

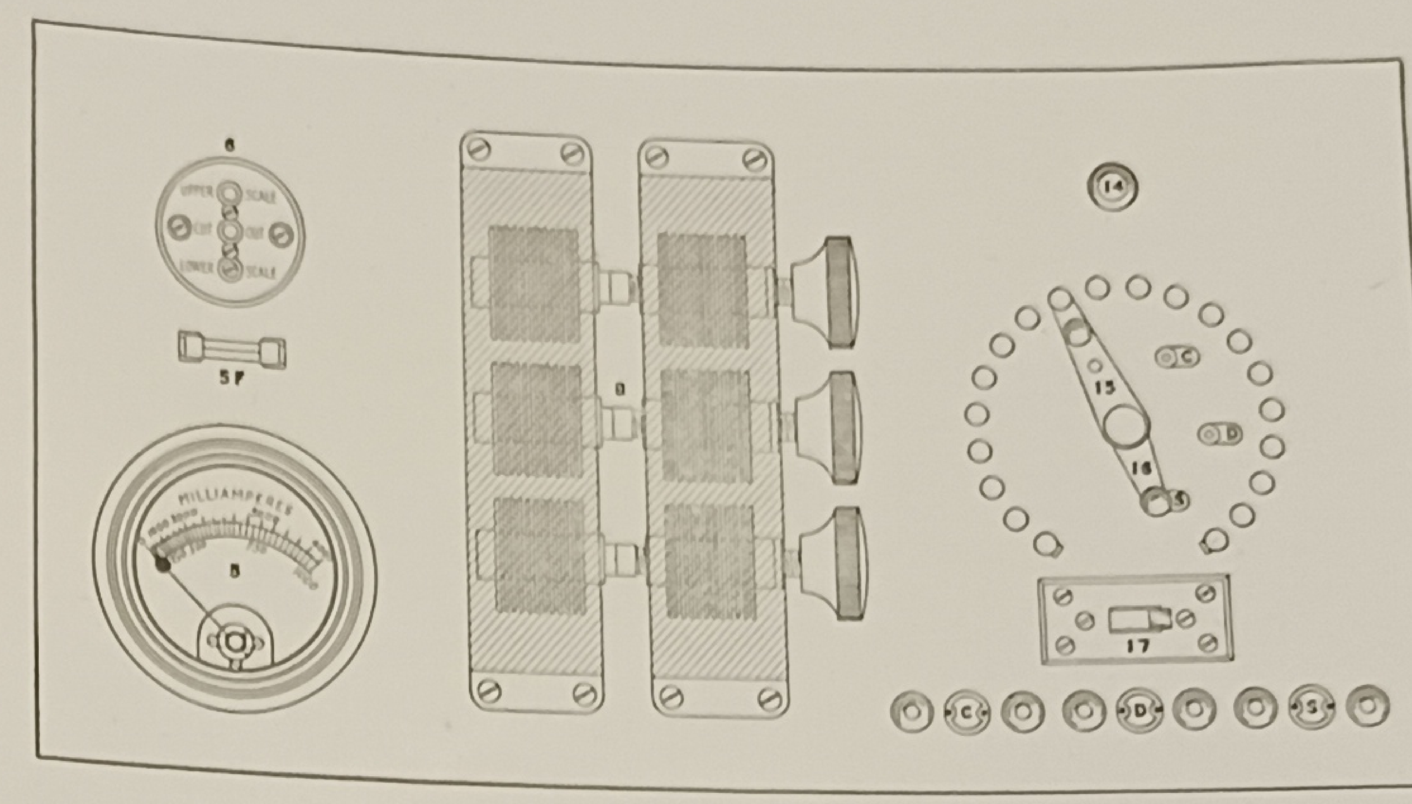
No. 7—High Tension, High Frequency Tesla Pole; for unipolar discharge only. Not to be used in connection with any other outlet.

No. 9—Pilot Lamp. When burning indicates current on. When not illuminated current is off.

No. 10—Main Controller for the High Frequency Diathermy, Coagulation and Auto-condensation circuits. For weakest discharge place lever to left. For strongest current place lever to right.

No. 12—Main Switch for High Frequency circuits. Button pushed to back and white dot showing, current *on*. Button forward, current *off*.

No. 13—Terminal outlets for Foot-switch. When using Foot-switch, leave main switch No. 12 in the OFF position.



EXPLANATION OF DIAGRAM

No. 5—Double Scale Milliamperemeter: 0 to 1000 M. A. lower scale to be used for measuring small amounts of current, and the 0 to 4000 M. A. scale for the heavier discharges. (See paragraph on Meter for further information.)

No. 5F—Meter Protecting Fuse.

No. 6—Control Plate for No. 5 Meter. For reading of current discharge up to 1000 M. A. only place plug in lower hole. Place plug in upper hole for reading of heavier currents. Use caution when using lower scale, as should your cords or electrodes touch one another, and create a short circuit the meter is apt to burn out. The outfit may be operated without the meter by placing the plug in the center hole marked "cut-out."

No. 8—Multiple Spark Gap. Tungsten points may be adjusted individually. One, two or three sets can be in action at one time, depending on the output desired.

No. 14—Pilot Lamp. When burning indicates current on. When not illuminated current is off.

No. 15—Lever for controlling volume of Cautery, Diagnostic and Sinusoidal circuits.

No. 16—Selector Lever for Cautery, Diagnostic and Sinusoidal circuits. Place on "C" for Cautery, "D" for Diagnostic or "S" for Sinusoidal.

No. 17—Line Switch for Cautery, Diagnostic and Sinusoidal circuits. Button to right with white dot showing, current ON. Button to left, current OFF.

When Cautery circuit is desired, place cords in two outlets on either side of plate marked "C", for Diagnostic circuit place cords in two outlets on either side of plate marked "D", and for Sinusoidal circuit place cords in two outlets on either side of plate marked "S".










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